In re Patent Application of:
SCHNEIDER ET AL
Serial No. 09/910,707
Filed: 07/20/2001
_____/

REMARKS

The notice of allowance of Claims 6, 9-24, 27, 29-36, 38-40 and 42-44, as well as the notice of allowable subject matter in objected to Claim 45 are gratefully appreciated.

In an effort to bring prosecution of the present application to a favorable conclusion, rejected Claims 1-5, 7, 8, 25, 26, 28, 37 and 41 have been cancelled, and objected to Claim 45 has been amended to incorporate the subject matter of Claim 41, from which it previously depended. As such, it is respectfully submitted that Claim 45 is currently in condition for allowance.

With the cancellation of all the rejected claims, and with all the claims remaining in the application being in condition for allowance, a notice of allowability of the present application is respectfully requested.

With respect to the objection to the disclosure noted in item 1 at the bottom of page 2 of the outstanding Office Action, attached please find a copy of the preliminary amendment filed by Applicant on January 9, 2002, which supplied the information alleged to be missing, and giving rise to the objection to the disclosure. Also attached is a copy of the postcard accompanying the filing of the preliminary amendment of January 9, 2002, by way of which the Commissioner has acknowledged receipt of the same. Withdrawal of the objection to the disclosure, as set forth in paragraph 1 at the bottom of page 2, of the outstanding Office Action is, accordingly, earnestly solicited.
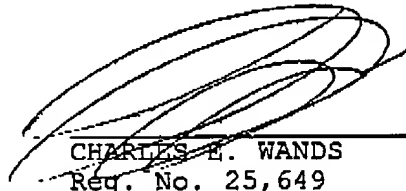
By virtue of the foregoing amendments and submission of a copy of the preliminary amendment of January 9, 2002, it is

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Filed: **07/20/2001**

respectfully submitted that the present application is in condition for allowance. A notice thereof is, accordingly, earnestly solicited.

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees, to Deposit Account No. 01-0484 and please credit any excess fees to such deposit account.
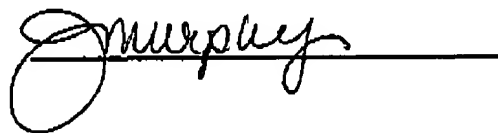
Respectfully submitted,

CHARLES E. WANDS
Reg. No. 25,649

Customer No.: 27975

Telephone: (321) 725-4760

CERTIFICATE OF FACSIMILE TRANSMISSION

I HEREBY CERTIFY that the foregoing correspondence has been forwarded via facsimile number **571-273-8300** to MAIL STOP AF, COMMISSIONER FOR PATENTS, this __/2__ day of December 2005.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: SCHNEIDER ET AL. Serial No. 09/910,707 Confirmation No. 2077 Filing Date: JULY 20, 2001 For: SYSTEM FOR PROVIDING EXTENDED RANGE ADSL SERVICE WITH AUXILIARY POTS CHANNEL OVER SINGLE-LINE DIGITAL SUBSCRIBER LINK	ATTY DOCKET NO. 72157 ART UNIT: 2661 COPY

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Before examination of the patent application on the merits, please amend the above-identified application as follows:

In the Specification:

Please replace the paragraph below the header CROSS REFERENCE TO RELATED APPLICATIONS beginning at page 1, line 6, with the following rewritten paragraph:

The present invention relates to subject matter disclosed in co-pending U.S. Patent Application, Serial No. 09/910,146 (hereinafter referred to as the '146 application), filed coincident herewith, by T. Ballard et al, entitled: "METHOD OF INDUCING ADSL COMMUNICATION DEVICE TO TRANSMIT AT DOWNSTREAM SIGNALING RATE OPTIMIZED FOR EXTENDED RANGE ADSL SERVICE WITH AUXILIARY POTS CHANNEL OVER SDSL LINK" and co-pending U.S. Patent Application, Serial No. 09/910,669 (hereinafter referred to as

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Filed: JULY 20, 2001
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the '669 application), filed coincident herewith, by J.
Zakrezewski et al, entitled: "METHOD OF ESTABLISHING SIGNALING
RATE FOR SINGLE-LINE DIGITAL SUBSCRIBER LINK PROVIDING EXTENDED
RANGE ADSL SERVICE HAVING AUXILIARY POTS CHANNEL," each
application being assigned to the assignee of the present
application and the disclosures of which are incorporated herein.

Please replace the last paragraph bridging pages 11 and 12,
with the following rewritten paragraph:

Each of respective upstream and downstream signal flow paths
of the ATM transceivers in the ALE-C and ALE-R includes a
cascaded arrangement of a CELLDELIN_ATM operator, an
ATMFIFO_2CELL FIFO and a GENCELLS_ATM operator. In the downstream
path, DSLAM-originated ATM traffic from the DSLAM is coupled to
an CELLDELIN_ATM operator, which deframes the serial ATM cells,
descrambles the deframed ATM cells and then writes them into the
ATMFIFO_2CELL FIFO. The ALE-C's GENCELLS_ATM operator serially
reads out the contents of the ATMFIFO_2CELL FIFO at a prescribed
downstream data rate (Nx32K bits per second, where N is based
upon the data rate at which the downstream ADSL path from the
DSLAM to the ALE-C is running). In accordance with a non-limiting
but preferred embodiment, this downstream ADSL data rate may be
established using a DSLAM-'spoofing' mechanism of the type
described in the above-referenced '146 application.

Please replace the paragraph beginning at page 25, line 14,
with the following rewritten paragraph.

The GENCELLS_ATM block 435 serially reads out the contents
of the ATMFIFO_2CELL block 433 at a prescribed downstream data

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Filed: JULY 20, 2001
_____/

rate (Nx32K bits per second), where N is based upon the data rate at which the downstream ADSL path from the DSLAM to the ALE-C is running. As mentioned previously, pursuant to a non-limiting but preferred embodiment, this downstream ADSL data rate may be established using a DSLAM-'spoofing' mechanism of the type described in the above-referenced '146 application.

Please replace the last paragraph bridging pages 26 and 27, with the following rewritten paragraph.

In order to ensure that the DSLAM will train at a data rate no higher than the data rate that can be supported by the SDSL link 300 (and also providing an auxiliary (64K) POTS channel), the DSLAM-spoofing mechanism is initially supplied with a "TARGET" SDSL data rate for the SDSL loop. In a preferred embodiment, this TARGET SDSL data rate is derived by means of the SDSL autobaud mechanism of the above-referenced '669 application, which iteratively performs a sequence of signal quality-based measurements over the SDSL loop between the ALE-C 120 and the ALE-R 220.

Please replace the last paragraph bridging pages 28 and 29, with the following rewritten paragraph.

As further described in the '146 application, the SDSL data rate to which the DSLAM is to train may be either a 'fixed' mode data rate, or a 'best efforts' mode data rate. Fixed mode corresponds to the use of a non-adjustable data rate that has been predefined by the telecom service provider, and will typically correspond to a minimum data rate guaranteed to the customer. There is no modification of this data rate; it either

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conforms with the TARGET SDSL data rate or it does not. Best efforts mode is used to induce the DSLAM to adjust its data rate until it conforms with the SDSL data rate. The minimum guaranteed data rate may range over a prescribed set of values, e.g., between 256K to 896K, at 128K increments. For a 512Kx384K service subscription, the guaranteed downstream data rate is 512Kbps and the upstream data rate is 384Kbps. In order to provide the 512K downstream data rate (plus the 64K POTS channel), the SDSL link would have to support at least at 512K+64K or 576Kbps.

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<u>REMARKS</u>

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "<u>Version With Markings to Show Changes Made.</u>"

Respectfully submitted,

CHARLES E. WANDS
Reg. No. 25,649

||||| ||||| ||||| ||||| 27975

PATENT TRADEMARK OFFICE

<u>CERTIFICATE OF MAILING</u>

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: DIRECTOR, U.S. PATENT AND TRADEMARK OFFICE, PO BOX 2327, ARLINGTON, VA 22202, on this _9_ day of January, 2002.

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Serial No. 09/910,707
Filed: JULY 20, 2001
_____/

<u>VERSION WITH MARKINGS TO SHOW CHANGES MADE</u>

<u>In the Specification:</u>

Please replace the paragraph below the header <u>CROSS</u>
<u>REFERENCE TO RELATED APPLICATIONS</u> beginning at page 1, line 6,
with the following rewritten paragraph:

The present invention relates to subject matter disclosed
in co-pending U.S. Patent Application, Serial No. [***]<u>09/910,146</u>
(hereinafter referred to as the '[***]<u>146</u> application), filed
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INDUCING ADSL COMMUNICATION DEVICE TO TRANSMIT AT DOWNSTREAM
SIGNALING RATE OPTIMIZED FOR EXTENDED RANGE ADSL SERVICE WITH
AUXILIARY POTS CHANNEL OVER SDSL LINK" and co-pending U.S. Patent
Application, Serial No. [&&&]<u>09/910,669</u> (hereinafter referred to
as the '[&&&]<u>669</u> application), filed coincident herewith, by J.
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application and the disclosures of which are incorporated herein.

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descrambles the deframed ATM cells and then writes them into the ATMFIFO_2CELL FIFO. The ALE-C's GENCELLS_ATM operator serially reads out the contents of the ATMFIFO_2CELL FIFO at a prescribed downstream data rate (Nx32K bits per second, where N is based upon the data rate at which the downstream ADSL path from the DSLAM to the ALE-C is running). In accordance with a non-limiting but preferred embodiment, this downstream ADSL data rate may be established using a DSLAM-'spoofing' mechanism of the type described in the above-referenced '[***]146 application.

Please replace the paragraph beginning at page 25, line 14, with the following rewritten paragraph.

The GENCELLS_ATM block 435 serially reads out the contents of the ATMFIFO_2CELL block 433 at a prescribed downstream data rate (Nx32K bits per second), where N is based upon the data rate at which the downstream ADSL path from the DSLAM to the ALE-C is running. As mentioned previously, pursuant to a non-limiting but preferred embodiment, this downstream ADSL data rate may be established using a DSLAM-'spoofing' mechanism of the type described in the above-referenced '[***]146 application.

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_____/

SDSL autobaud mechanism of the above-referenced '[&&&]669
application, which iteratively performs a sequence of signal
quality-based measurements over the SDSL loop between the ALE-C
120 and the ALE-R 220.

    Please replace the last paragraph bridging pages 28 and 29,
with the following rewritten paragraph.

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conforms with the TARGET SDSL data rate or it does not. Best
efforts mode is used to induce the DSLAM to adjust its data rate
until it conforms with the SDSL data rate. The minimum guaranteed
data rate may range over a prescribed set of values, e.g.,
between 256K to 896K, at 128K increments. For a 512Kx384K service
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the upstream data rate is 384Kbps. In order to provide the 512K
downstream data rate (plus the 64K POTS channel), the SDSL link
would have to support at least at 512K+64K or 576Kbps.

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SERIAL/PATENT NO. _09/910,707_

FILED/ISSUED _07·20·01_

APPLICANT _Schneider et al._

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__ Form PTO-1449 and Copies of Cited References
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__ Notice of Appeal ($310 large entity)
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DATE   FILE NO.

__ Transmittal of Formal Drawings (____ sheets)
__ Part B – Issue Fee Transmittal
__ PCT Request (____pp.) + Application (____pp.)
__ National Phase Transmittal Letter
__ Certificate of Express Mail Label No._____
__ Response to PCT Invitation to Correct Defects
__ Ch.II Demand
__ Associate Power of Attorney
__ Revocation of Prior Powers of Attorney and POA
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ATTORNEY   (407) 841-2330

JAN 1 5 2002